



OIPE

RAW SEQUENCE LISTING

DATE: 02/25/2002

PATENT APPLICATION: US/09/857,372B

TIME: 10:35:34

Input Set : N:\Crf3\02222002\I857372A.raw

Output Set: N:\CRF3\02252002\I857372B.raw

PP 4-5

Does Not Comply
Corrected Diskette Needed

ok

```

1 <110> APPLICANT: Contreras, Roland
2   Nelissen, Bart
3   DeBacker, Marianne
4   Luyten, Walter
5   Viaene, Jasmine
6   Logghe, Marc
7 <120> TITLE OF INVENTION: Drug Targets in Candida Albicans
8 <130> FILE REFERENCE: 53731/000
9 <140> CURRENT APPLICATION NUMBER: US/09/857,372B
10 <141> CURRENT FILING DATE: 2001-09-24
11 <150> PRIOR APPLICATION NUMBER: 982204122.0
12 <151> PRIOR FILING DATE: 1998-12-04
13 <160> NUMBER OF SEQ ID NOS: 22
14 <170> SOFTWARE: PatentIn Ver. 2.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 438
18 <212> TYPE: DNA
19 <213> ORGANISM: Candida albicans
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22   taactgatga acaattgaat accattgcat tgacatttgg ttttgcttca ataattattaa 120
23   tcataatata tcatgccata tctactaatg tacataaaatt agaagatgaa accccatcat 180
24   cttcattttac cagaacaaat actactgaaa ctactgttgc aagtaagaaa aagaagtaat 240
25   aactgatgga tttttcttcc taccaccaat tgaataatgc tagacttggt ggtgtgctac 300
26   aaatattttca aaagaaaata cgaatacttt ataaaatggt aagaacggaa gatggtttct 360
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28   tatatccctt tatttgat                                     438
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31 <211> LENGTH: 1380
32 <212> TYPE: DNA
33 <213> ORGANISM: Candida albicans
34 <400> SEQUENCE: 2
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36   ccggccttga tcagaacctc cgctgccttc gaccgttcta aacctcatgt caacattggt 120
37   actattgggtc atgttgatca tggtaaaact acattgactg ctgctatcac caaagtttta 180
38   gccgaacaag gtgggtgccaa ctctctggat tatggttcta ttgatagagc tcacagaaga 240
39   agagctagag gtatcactat ttccactgcc cacgttgaat acgaaaccaa gaacagacac 300
40   tatgccacag ttgattgtcc aggacacgct gattatatca aaaatatgat tactgggtgcc 360
41   gctcaaatgg atggtgctat cattgttggt gctgccactg atggtcaaat gcctcaaacc 420
42   agagaacatt tgttattggc cagacaagtt ggtgttcaag acttggttgt gtttgtcaac 480
43   aaagtgcata ctattgatga ccctgaaatg ttggaattag tcgaaatgga aatgagagaa 540
44   ttgttatcca cctacggttt tgatggtgac aacactccag ttattatggg atctgcttta 600
45   atggcttttg aagacaagaa accagaaatt ggtaagggaag ctatcttgaa attggttagat 660

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Input Set : N:\Crf3\02222002\I857372A.raw

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46 gctgtcgatg aacacattcc aactccatca agagacttgg aacaaccatt tttgttacca 720
47 gttgaagacg tgttctccat ctccggtaga ggaactgttg tcaactggtag agttgaaaga 780
48 ggtgttttga agaaggggtga agaaatcgaa attgttgggtg gttttgacaa accttacaag 840
49 actactgtta ccggtattga aatgttcaaa aaagaattag actctgctat ggctgggtgac 900
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53 agaactaacg atgtcactac cacattttca ttcccagaag gagaagggtg tgatcattct 1140
54 caaatgatca tgccagggtga caacattgaa atggttgggtg aattgatcaa atcttgtcca 1200
55 ttagaagtca accaacgttt caacttgaga gaagggtggtg aaactgttgg tactgggttg 1260
56 attaccagaa tcatcgaata aacagaatgt gcaactgtgaa taataaaaag aaaagaggta 1320
57 tatatagggtg actttgtatt ttgtattgaa caataaaatt ctgtaaatag taagggcctc 1380
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62 <213> ORGANISM: Candida albicans
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66 caccgacaac tcagacgcaa acccaaagca aagaggacca gaataggatt tgtcaattga 180
67 tttgctccac gggtcagttt ggcaattatg atttgaatat caacgataaa actatcgtac 240
68 aaggtaaaat gacgtggtat tttggaagag accccaactc agatttgcaa gtggcgctcg 300
69 cgtcgagaat ttcaaacaag cattttcaaa tctggtcaca cttcaatgat aaatcactat 360
70 ggataaagga cacttcaact aacgggacac accttaacaa cagtcgattg gtgaaaggat 420
71 caaactacct tcttaatcag ggtgatgaaa tagcagtagg ggttggtaga gacgaggacg 480
72 ttgtgagggtt tgtcgttggtc tttggtgaca aatacaaccc ggcaaagcta cctgattcga 540
73 ccaacacaat taaagatgaa ggaatatata aagactttat tgtgaaaaat gaaacgatag 600
74 gccaaaggagc atttgccact gtgaaaaagg cgattgaacg atctacgggc gagtcgtacg 660
75 cgggtgaagat tataaatcga agaaaagcat taaataccgg tgggtggaagt gccatggcag 720
76 gagtggaccg tgaattgtcc atattagagc ggctcaacca cccaaatata gttgctctaa 780
77 aagcttttta tgaagatatg gacaattact atattgtgat ggaattggtg ccgggcggtg 840
78 atttgatgga ctttgtggct gcaaacggtg caataggaga agacgcaaca caagtgatca 900
79 cgaaacagat tctagaagga attgcctatg ttcataattt aggaatctcc catcgtgatt 960
80 tgaagccaga taatattttg attatgcaag atgacccaat acttggttaa atcaccgact 1020
81 ttggattggc aaaattcagt gacaatctga cgtttatgaa aactttttgt ggtacattgg 1080
82 cgtatgttgc tcccgaagtt atcaccggtg agtatggatc atcgagatg gaactgcaac 1140
83 aaaaggacaa ctactcttcc ttggttgaca tttggtcttt gggatgtttg gtttatgtac 1200
84 ttttaacttc tcatttaacca ttcaacggga aaaaccagca acaaatgttt gccaaagatca 1260
85 aaaggggcca atttcatgag gctccattaa attcatacga catttctgaa gacggaagag 1320
86 atttcttgca gtgctgccta caggttaatc ctaaaactaa gatgacggct gctgaagctt 1380
87 tgaaacataa atggttgcaa gacttgtagg aagaggattc tgtcaaatca ttgagtttat 1440
88 cgcaatcaca gtcgcaacaa tctcgaaaag tagataatgg tatccatata gaatcattga 1500
89 gcaaaattga tgaagacgtt atgcttcgtc cattggatag cgaaagaaat aggaaatcaa 1560
90 gtaaacagca agatttcaag gtacccaagc gtgtgattcc gttatctcaa catcctgcaa 1620
91 caccgttacc aatgtcaca cccgaaaagc ggccgtatca aatagaccct agaacaaaca 1680
92 aaaaagtcga tttggaagaa cctctgacaa gcaagaaaagt caagctaagt gattccgttg 1740
93 ttgcggaaga ctacttgaag ttggggccac ttgcaaatc gttattccaa gaaacaataa 1800
94 atatttcaaa gtccccgttt tctttcgtaa gaaatgacac ttgtgattgc gagatagacg 1860
95 acgacagact atccaaaact catttgtgtc ttaccaaaga aaacgactct atatggttat 1920

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Input Set : N:\Crf3\02222002\I857372A.raw

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96   tggataagag tactaactcg tgcttgggtca acaatactag tgttggaaaa ggcaacaaaag 1980
97   ttttgcttag aggaggggag atattacatc tcttctttga cccattgtca ctgcaacata 2040
98   taggtttcaa agtagtcctt gttgatcaac tgtctgggtga acataagagt caagtggagg 2100
99   ttttgaaaca aacctcagaa gaaatgaata ttattccact tatttctggt ttaagtagta 2160
100  taagttcata gatttagcat atatacaagc atttcctata gaaacaaaagg ttcattaatt 2220
101  tagttattta cctccatgca attacattta cttcttcttc caagggcgaa ttctgcagat 2280
102  atc 2283
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105 <211> LENGTH: 826
106 <212> TYPE: DNA
107 <213> ORGANISM: Candida albicans
108 <400> SEQUENCE: 4
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110  gcccatggac atttttggat ttgataatta aaaaaagtag caatagatta ttgcgttgga 120
111  gaaagaatca ccatagttgc aagatttgat agatgttaaa atgttcacgc aggcgaaaga 180
112  tgtaacatct cttaaagtaa gaagaatatg gacatgaata aaaatagata gcactatttt 240
113  ggaacttggt gaagatatta aaatagaatg ggatttcaac atagatattc aaagtaacga 300
114  aacctcacia tcaataaaaa acaacagtaa tactaacaat tcaattttta tttttataga 360
115  gggtagtcca tctttaggta aacgtcacaa caaatctcac accttatgta acagatgtgg 420
116  ccgtcgttca ttccacgtcc aaaagaagac ctgttcttct tgtggttacc cagctgctaa 480
117  aatgagatct cacaactggg ccttaaaagc caaaagaaga agaactactg gtaccggtag 540
118  aatggcttac ttgaaacacg ttaccagaag attcaagaac gggttccaaa ctggtgttgc 600
119  taaagctcaa accccttccg cttaaactaa ttactgaagt tattggtcat gcattagtca 660
120  ttattcatta aagtcattgt aagcatagca aaggaagaat tggtagatt ctgttttaaa 720
121  atgtaatgac tatttaatat ctgtttaaat aagaggttta gtctttattt ttttacgtat 780
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125 <211> LENGTH: 978
126 <212> TYPE: DNA
127 <213> ORGANISM: Candida albicans
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130  gtttttgtag aaataaaaaca tgaaaagaat aaacaacgtc ataagcaaag agccgaaaga 120
131  gctaagggaag aaagagaaaa ccccgaatta agagaggaaa gaatagcagc taatatccca 180
132  gatactatag atagcaaacy tatttatgat gagactatag ctgctgaagt tgaaggagat 240
133  gacgagtttc agtcataatt cactaacttg ttggaagaac caaagatttt gttgacaaca 300
134  agtgccaatg ctaaaaaacc ggcctatgaa ttgacagaca tgatcatgga ctttttaccg 360
135  aatgtgacat ttatcaaaag gaagaaggaa tatacaatgc aagatatggc caaatattgc 420
136  tcgaatatag acttcaactgc attgcttgtc atcaacgaag acaagaagaa ggtcaatggt 480
137  ataacgtca tcaatttacc tgaagggcc acaattttatt tttcgattac atcaatagtt 540
138  gatgggaaaa gaattaaggg acacgggaaa gctgggtgatt atttacctga gattgtattg 600
139  aataatttca attcaagatt gggtaaaact gtgggaagac tatttcaaag tattttccct 660
140  cataaacctg aacttcaagg aagacaagtg attactttgc acaatcaacy tgattatatt 720
141  tttttcagaa gacatagata tattttcaga atgaggaaa aggttgatt gcaggaattg 780
142  ggtccgcagt ttacattaaa gctaagaaga atgcaaaagg gagtacgtgg gattgttgtt 840
143  tgggaacaca gaccagatat ggaaagagat aagaagaagt tttatttata agcgggtgta 900
144  taaaggtagt agtagtgcgt ttataagtat gtgtgtgtgt ttatgcatag atgtgtaaag 960
145  agtaatacag ctaattcg 978
147 <210> SEQ ID NO: 6

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Input Set : N:\Crf3\02222002\I857372A.raw

Output Set: N:\CRF3\02252002\I857372B.raw

See 1.823 of Sequence Rules

Do not insert any response to
<220>, <220> is a "header" only.

148 <211> LENGTH: 619
149 <212> TYPE: DNA
150 <213> ORGANISM: Candida albicans
W--> 151 <220> FEATURE: ~~DNA~~ delete
W--> 152 <221> NAME/KEY: n = any nucleotide > <223> ✓
153 <400> SEQUENCE: 6
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155 ttaattatga attctgaaaa gattattgaa gttatcattg ctattttctt accaccagta 120
156 gctgtgttta tgaaatgtgg tgccactacc ccattatgga ttaacttggt attatgtatc 180
157 tttattttggt tccctgctat cttacatgcc ttatacgttg tgttgaaaga ttaaacaac 240
158 accagagatt tactgcttga tgaattgatt actccaaaga gttgtgacta gttcccagtg 300
159 tgtttttttt gccttccaac tttcttttac atttttccat tactaccact gtcttccccc 360
160 ctattttgca gagttttcaa aatttatcca aaacatgtta gtcattaaac catattatta 420
161 taattattct tttttgtatt tttttccctt aaaacacgtt aatttattaa tcgtttcggt 480
162 gtttggtatt ttattttttt gtatttatca attggaatat atatctatac atgaatttat 540
163 tatccattgt accaattggt aaaacatttt gttagttttt tggtactagt ataaaaannat 600
164 aataaaagtt tanttcaac 619
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168 <212> TYPE: DNA
169 <213> ORGANISM: Candida albicans
170 <400> SEQUENCE: 7
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172 ccatcaatct tggaaatcgc agccaccaat tctcaaaaata aatcgagaag gctaagtatg 120
173 gataatggtc attgttatgt tcgtgaatca actaataatc atcatcattt aaataccgtc 180
174 gttgataatt tacgacagcg tgcgggatcg ttttcattta tttcacatca ccataatcac 240
175 catcagaata gtcacgataa ttatactgtc gatcccccta catcaaacyg agcacgaatt 300
176 tcccgatcac gttcacgttc caaatcagtt gggcacggag aagcaatatc accagcgtat 360
177 ttttccaaga ataaaaacca agatttagtg aaacaggaaa cagcacatat cattctgaag 420
178 aaattactca acatgttaca agatttggat ttacaaaacc ctattgcatt gaaaacaata 480
179 tcacaagggt cagaatcaaa gttttgtaaa atctacgtgt ctaacactaa taattgtatt 540
180 tacttaccag cagcaagttc aacaagtttc acttatgaag atgatgaaaa tggcggcggt 600
181 ataattgctg aagatagaaa tgatgaaatg ccaacagcag ttaataacaa tactttgtca 660
182 atggatagta taaatcattc agagactgat ttcttggtt ctccaccacc tccagattta 720
183 ttttctaaaa tgaaatcatt ccattcacca aattacttga cttcaaaaat cgattctgaa 780
184 tgtccaattc cacatacatt tgctgtgatt gttgaattaa ccaaggactc tttgattatt 840
185 aaagatcttc atttccaatt tcagtcatta actaccattt tatggccaac tggggatgca 900
186 tataatcgga ctcatgccaa ggagaaattt accattggga atatggaatg gcgtacatct 960
187 ttaagcgacg ccgactatta tatcaatagt tctaattcca acgatgttaa gctgaaaaac 1020
188 ttgggtcctg aagatcttat taatcgaact agagaataca aattaatcga tattgaagaa 1080
189 ccaacaatt catcaaacyg tttactggat gatgacatgg atattaataa tattacgtcg 1140
190 ccattatcaa cgtcaccaac atcaagttca acttcaacaa attcaacctc caactcattg 1200
191 ggttcagatt catataaagc tggcttttat gtatttttat taccaatctt attgccagaa 1260
192 catattcctg cttccattgt ttctattaat ggttcattgg ctcatacatt actggttgaa 1320
193 tgcaataaat atactgataa gttgaatcgg aaatcaaaag tatcagcatc gtacaattta 1380
194 cctatggtcc gtaactccacc aaacattggt aattccattg ctgataagcc aatttatggt 1440
195 aataggattt ggaatgatgc cgtacattat attataactt tccccgcaa atatgttact 1500
196 ttgggttggt aacacatgat aaatgtgaaa ttactgccca tgggtgaaaga tgtggttatc 1560
197 aagcgtatta aatttaattgt attggagaga ataacttatg tttccaaaaa tttatcacga 1620

closest-
Explanation
for "n" vs
"xxx" on
line.

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Input Set : N:\Crf3\02222002\I857372A.raw

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198      gaatatgatt atgatagtga agacccttat tgtattcatc cagttttctaa agaaaataaa 1680
199      gtacgtgaac gtgttggtgc gttatatgaa ttgaaaacga aggcaaaaaca atctttctggt 1740
200      ggacatcttg aagcttataa acaagaagtt atgaaatgtc cggaaaaataa cctttttattt 1800
201      tcttggttatg aggttgaaaa tgataataat aacggcaacg gcaacggcaa cggcaacgga 1860
202      aacaagaacg ttaaacaataa gaataaagat caaccaatga ttgctacacc tttagatatc 1920
203      aatgtttctt taccattttt aactactatg tctgatagtt taattatgac atcagccata 1980
204      gaagaagaag gttcagatct gcctcataca tcaagaagag ggtcggcagt gagtatgact 2040
205      gataataata ctacccaag taacaataac cctttatctc catttttggg agcagtggaa 2100
206      actaatggtg ctagtataaa tgaaattggt gatcatacat tattccctga ttctaatttt 2160
207      cgacatatgg aaattaaaca tcgattacaa gttacattta ggattttctaa accggatctg 2220
208      gataataaaa tgcataatta tgaagtgggt attgataccc ccatcgtttt acttagttca 2280
209      aaatgtcaag aagattctcc tctccttat agttctgta 2319

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211 <210> SEQ ID NO: 8

212 <211> LENGTH: 255

213 <212> TYPE: DNA

214 <213> ORGANISM: Candida albicans

215 <400> SEQUENCE: 8

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216      aacgttcgtg caaaaggcta tactggtgat atccacgcag atgaagagca agtttaatca 60
217      actctttgtc aattaatgct gtacttgttt tcattttatt tgctggcatt taaagaatac 120
218      ccatagttca gaaaataaaa ttgaaaaatt taaaaaaaaa cgcaatatca ttcatttttt 180
219      ttgttttttt gacaataata ttaatatgta gttaccaatg tttttagatt ttatatgttt 240
220      tgaaaaaata gtttg 255

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222 <210> SEQ ID NO: 9

223 <211> LENGTH: 119

224 <212> TYPE: DNA

225 <213> ORGANISM: Candida albicans

W--> 226 <220> FEATURE: DNA

W--> 227 <221> NAME/KEY: n = any nucleotide

Same Error as P. 4

228 <400> SEQUENCE: 9

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W--> 229      aaccttacaa tcattatacc aactatcaaa atcataagac tcttnaactt ctgtttttga 60
230      tagttggtat aatgatttat gtattatctt aattcattat tattagtttc ggtcacaaa 119

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232 <210> SEQ ID NO: 10

233 <211> LENGTH: 60

234 <212> TYPE: PRT

235 <213> ORGANISM: Candida albicans

236 <400> SEQUENCE: 10

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237      Met Ile Thr Asp Glu Gln Leu Asn Thr Ile Ala Leu Thr Phe Gly Phe
238      1           5           10           15
239      Ala Ser Ile Ile Leu Ile Ile Ile Tyr His Ala Ile Ser Thr Asn Val
240      20           25           30
241      His Lys Leu Glu Asp Glu Thr Pro Ser Ser Ser Phe Thr Arg Thr Asn
242      35           40           45
243      Thr Thr Glu Thr Thr Val Ala Ser Lys Lys Lys Lys
244      50           55           60

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246 <210> SEQ ID NO: 11

247 <211> LENGTH: 426

248 <212> TYPE: PRT

249 <213> ORGANISM: Candida albicans

250 <400> SEQUENCE: 11

VERIFICATION SUMMARY

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Input Set : N:\Crf3\02222002\I857372A.raw

Output Set: N:\CRF3\02252002\I857372B.raw

L:9 M:270 C: Current Application Number differs, Wrong Format
L:151 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:152 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:163 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:163 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:164 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:164 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:226 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:227 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:229 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:229 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9